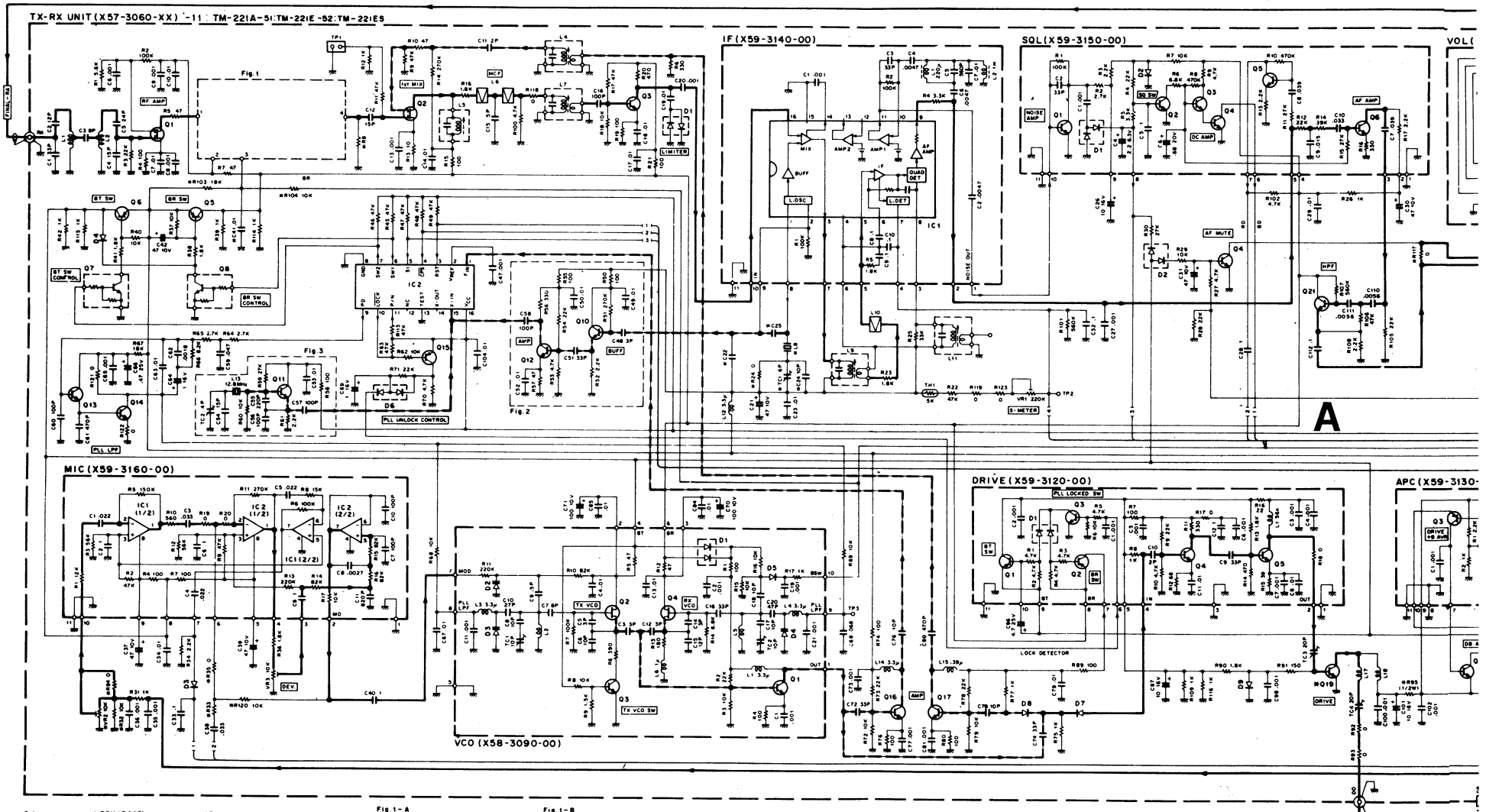
TMM-221

SERVICE MANUAL

KENWOOD

KENWOOD TM221



Q1	: 3SK184(S)
Q2	: 3SK131(V12)
Q3,10~12,16,17	: 2SC2714(Y)
Q4	: 2SC3326(A)
Q5,6	: 2SB1119S
Q7,8	: DTC124EK
Q9,13,14,18,21	: 2SC2712(Y)
Q15	: 2SA1162(Y)
Q20	: 2SD1406(Y)

IC1	: MC7808C
IC2	: M54959P
IC3	: TC4094BP
IC4	: μPC1241H
D1	: 1SS226
D2,6,9,10	: 1SS181
D3,4	: 1SS184
D5	: 02CZ6.2(Y,Z)
D7,8	: BA282
D11~13	: 1SV164

Fig.1-A

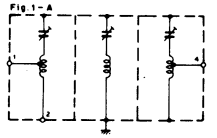
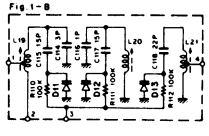


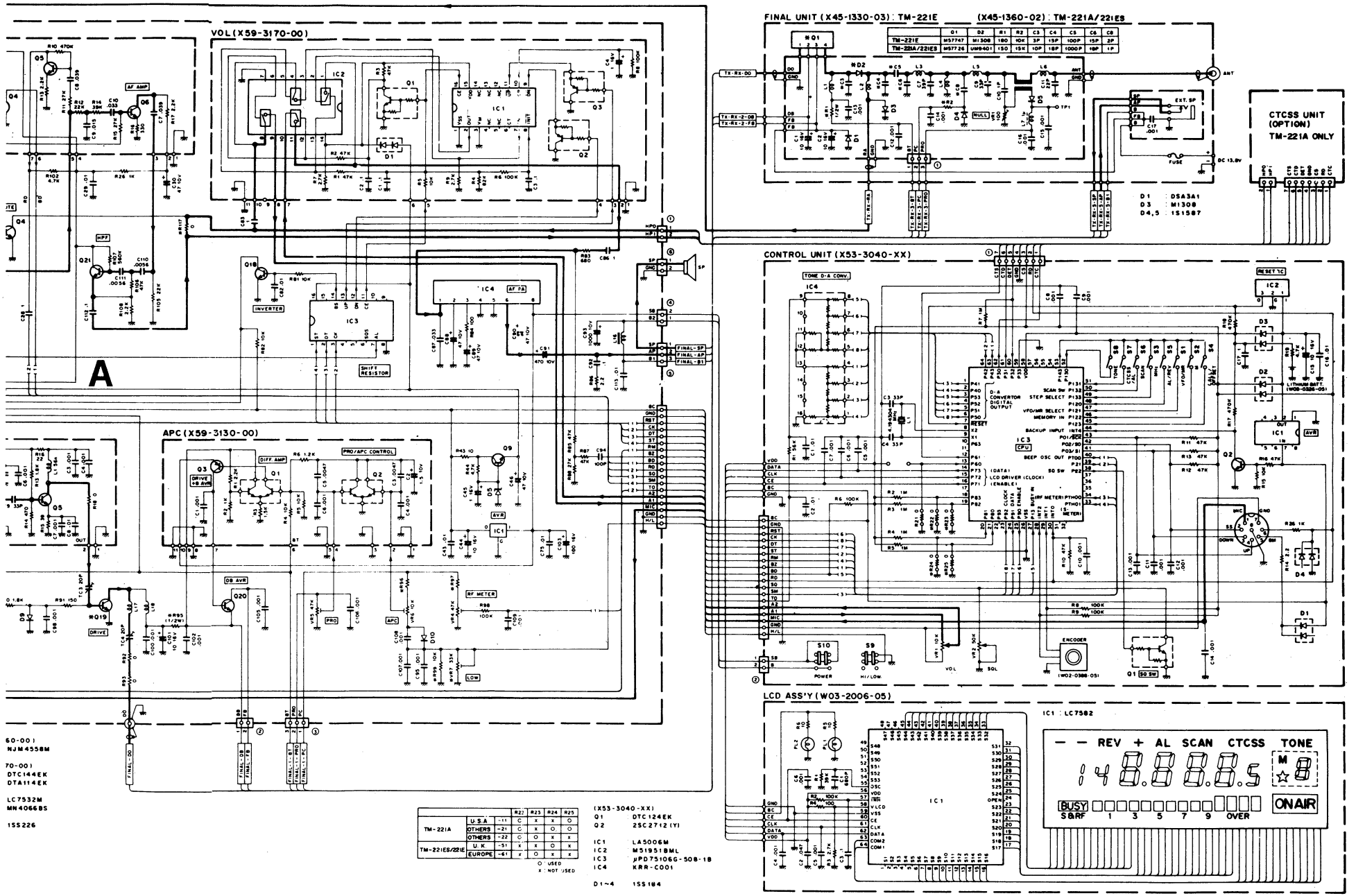
Fig.1-B



(X58-3090-00)		(X59-3120-00)		(X59-3140-00)		(X59-3160-00)	
Q1	: 2SC2757(T85)	Q1,2	: 2SA1162(Y)	IC1	: TA7761F	IC1,2	: NJM4558M
Q2	: 2SK508(K52)	Q3	: 2SC2712(Y)				
Q3	: 2SC2712(Y)	Q4	: 2SC2714(Y)	(X59-3150-00)		(X59-3170-00)	
Q4	: 2SK508(K51)	Q5	: 2SC3837K(N)	Q1,2,5,6	: 2SC2712(Y)	Q1	: DTC144EK
				Q3,4	: 2SC3295(B)	Q2,3	: DTA114EK
D1	: 1SS184	D1	: 1SS184				
D2	: 1SV164			D1	: 1SS226	IC1	: LC7532M
D3,4	: 1SV166	(X59-3130-00)		D2	: 1SS181	IC2	: MN4066BS
D5	: 1SS153	Q1,2	: FMW-1				
		Q3	: 2SA1162(Y)			D1	: 1SS226

○ USED
× NOT USED

	Q19	VR2	VR7	L8	TC1	R8	R24	R32	R33	R35	R94	R95	R96	R97	R99	R103	R104	R117	R120	C22	C24	C25	C41	Fig.1	Fig.2	Fig.3	Connector
TM-221A	2SC3369	○	○	10.24MHz	○	1.8K	×	×	100K	×	×	22	100K	10K	×	○	○	×	○	330P	○	180P	○	B	○	×	○
TM-221E	2SC2538-22-A	×	×	10.245MHz	×	2.2K	○	○	22K	○	○	33	47K	4.7K	○	×	×	○	×	150P	×	33P	×	A	×	○	×
TM-221ES	2SC3369	×	○	10.249MHz	×	2.2K	○	○	22K	○	○	22	100K	10K	×	×	×	○	×	150P	×	33P	×	A	×	○	×


VOL (X59-3170-00)
FINAL UNIT (X45-1330-03) : TM-221E
(X45-1360-02) : TM-221A/221ES
CTCSS UNIT (OPTION) TM-221A ONLY
CONTROL UNIT (X53-3040-XX)
APC (X59-3130-00)
LCD ASS'Y (W03-2006-05)
A
IC1 : LC7582
REV + AL SCAN CTCSS TONE
BUSY
S&RF
ONAIR
OVER
D1 : DSA3A1
D3 : M1308
D4,5 : 1S1587
(X53-3040-XX)
Q1 DTC124EK
Q2 2SC2712 (Y)
IC1 LA5006M
IC2 M51951BML
IC3 μPD75106G-508-18
IC4 KRR-C001
D1~4 1SS184
TM-221A
TM-221ES/221E
U.S.A
OTHERS
EUROPE
O : USED
X : NOT USED

BLOCK DIAGRAM

TM-221 series